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AMENDMENTS TO THE CLAIMS

- 1-13 (cancelled)
- 14. (Previously presented) A method according to claim 26, characterized in that the atmosphere is air.
- 15. (Previously presented) A method according to claim 14, characterized in that the air contains at least one further gaseous medium.
- 16. (Previously presented) A method according to claim 14, characterized in that the lyosol is introduced dropwise into the air.
- 17. (Previously presented) A method according to claim 14, characterized in that the lyosol is sprayed into the air.
- 18. (Previously presented) A method according to claim 14, characterized in that the lyosol is screened according to size by the air which is directed in opposition to gravity.
- 19. (Previously presented) A method according to claim 14, characterized in that the velocity of the air diminishes in the direction of flow.
- 20. (Previously presented) A method according to claim 26, characterized in that the substantially globular lyogel is trapped in a layer of water.
- 21. (Previously presented) A method according to claim 26, characterized in that the lyosol is formed from silicic acid and mineral acid.

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22. (Previously presented) A method according to claim 26, characterized in that the lyosol is formed from a sodium water-glass solution and hydrochloric acid.

23-25. (Cancelled)

- 26. (Currently amended) A method of producing substantially globular aerogels wherein:
 - i) gel forming components are mixed to produce a lyosol;
 - ii) the lyosol is introduced into an atmosphere <u>flowing</u> which flows substantially against the direction of gravity to form a substantially globular lyogel; and
 - iii) the substantially globular lyogel is converted to an aerogel.
- 27. (Currently amended) A method of producing substantially globular silylated lyogels wherein:
 - i) gel forming components are mixed to produce a lyosol;
 - ii) the lyosol is introduced into an atmosphere <u>flowing</u> which flows substantially against the direction of gravity to produce a substantially globular lyogel; and
 - iii) the substantially globular lyogel is reacted with a silylating agent to form a substantially globular silylated lyogel.
- 28. (Currently amended) A method of producing substantially globular aerogels wherein:
 - i) gel forming components are mixed to produce a hydrosol;
 - ii) the hydrosol is introduced into an atmosphere flowing which flows substantially against the direction of gravity to form a substantially globular hydrogel; and
- iii) the substantially globular hydrogel is converted to an aerogel; wherein the hydrosol is formed from silicic acid and mineral acid and wherein the substantially globular hydrogel is trapped in a layer of water.